	Application No.	Applicant(s)
Notice of Allowability	09/973,270	CHANG ET AL. Art Unit
,	LAMINO	
	Linda Wong	2634
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>9/21/2005</u> .		
2. The allowed claim(s) is/are <u>1-4,6,7,9 and 11-18</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal F	atent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. X Interview Summary Paper No./Mail Da	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/C		ment/Comment
 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. 🛭 Examiner's Stateme	ent of Reasons for Allowance
or orongram material	9.	

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- Authorization for this examiner's amendment was given in a telephone interview with Georgann S. Grunebach on Monday, November 28, 2005.
- 3. Claim 1, line 12, the limitation "1/A*fs" is changed to "1/(A*fs)".
- 4. Claim 9, line 11, the limitation "1/A*fs" is changed to "1/(A*fs)".
- 5. Claim 15, line 8, the limitation "1/A*fs" is changed to "1/(A*fs)".
- 6. Claim 16, line 13, the limitation "1/A*fs" is changed to "1/(A*fs)".

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

Allowable Subject Matter

- 7. Claims 1-4,6-7,9,11-18 are allowed over prior art.
- 8. The following is an examiner's statement of reasons for allowance:

The admitted prior art (Fig. 2A) discloses a sampling communication system comprising receiving the communication signals with radiated elements and forming received signals, amplifying said received signals within the plurality of LNAs to form an amplified received signals and downconvertring said amplified received signals into digital baseband signals within the plurality of A/D converters". The prior art does not discloses an aperture time of 1/(A*fs).

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Kroeger et al discloses a communication system comprising sampling a received amplified signal with a downconverter, but does not disclose an aperture time of 1/(A*fs).

Turcotte et al discloses a beam former comprising sampling amplified received signals but Turcotte et al does not disclose sampling the amplified received signal using a downconverter, wherein the downconverter comprises an aperture time of 1/(A*fs).

9. The novelty of the invention are the following:

"... downconverting said amplified received signals into digital baseband signals within the plurality of A/D converters by sampling the amplified received signals at a predetermined sampling frequency fs using A/D converters with an aperture time of 1/(A*fs), where A is a constant related to the A/D converters."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linda Wong whose telephone number is 571-272-6044. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linda Wong

STEPHEN CHIN SUPERVISORY PATENT EXAMINE Page 4

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